## Product Perspective

<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. In this part, make sure to include a simple diagram that shows the major components of the overall system, subsystem interconnections, and external interface. In this section it is crucial that you will be creative and provide as much information as possi ble.

TO DO: Provide at least one paragraph describing product perspective. Provide a general diagram that will illustrate how your product interacts with the environment and in what context it is being used, i.e., context diagram.>

This is a new self contained web application. The Hot Logbook provides the user with the following. A login screen, a user profile, new user page, generate password page, and Custom service page. The loggin page will be the landing page (first page that the user views). The user profile will be displayed uppon a successful login. The user profile page will allow the user to manage the passwords that they have for different accounts; as well as get to the other pages. Where the user will be able to generate new passwords (the generate page), and set password requirementsfor certain websites, such as cannot contain a special character, or password must be between eight and fourteen characters.

## Product Functionality

<Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 3, so only a high level summary is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, will be effective.

TO DO:

1. Provide a bulleted list of all the major functions of the system

2. **(Optional)** Provide a Data Flow Diagram of the system to show how these functions relate to each other. This is useful when there is a clear sequence for the functions being performed.>

* Generate secure passwords for an account specified by the user
* Logs all usernames and passwords to a database
* Allows for new accounts to be added to the users profile
* Allows the end user to specify password rules that they need.

## Users and Characteristics

<Identify the various users that you anticipate will use this product. Users may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience.

TO DO:

1. Describe the pertinent characteristics of each user. Certain requirements may pertain only to certain users.

3. Distinguish the most important users for this product from those who are less important to satisfy.>

Anyone who wants to remember their password, or would like to generate a secure password. The most important users for this product are buisness men/women who need secure passwords for their organization.

## Operating Environment

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist. In this part, make sure to include a simple diagram that shows the major components of the overall system, subsystem interconnections, and external interface

TO DO: As stated above, in at least one paragraph, describe the environment your system will have to operate in. Make sure to include the minimum platform requirements for your system. >

This project is a web application. Therefore it should run on any modern device capable of using Google Chrome or another suitable Browser. Hot Log book will work on Linux, Windows and Mac because it is a web application. This web application will be able to peacfully coexist with InteliJay.

## Design and Implementation Constraints

<Describe any items or issues that will limit the options available to the developers. These might include: hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).

TO DO: In this section you need to consider all of the information you gathered so far, analyze it and correctly identify relevant constraints.>

Some constraints that could effect the final project are security, and the use of different programming languages. Security is an issue with any project, specificly web applications, and since we are new to Javascript we do not yet know of vulnerabilities that exist within the language. Building a database will also be difficult. Given that there will be a lot of passwords that need to be logged we were thinking of using some kind of structured query language to manage the data. This opens up a whole new can of worms because we will need to learn how to create an SQL database and defend it against common kinds of database attacks, such as SQL injection.

## User Documentation

<List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.

TO DO: You will not actually develop any user-manuals, but you need to describe what kind of manuals and what kind of help is needed for the software you will be developing. One paragraph should be sufficient for this section.>

This software will include an FAQ section, which will be hosted on the web page. The FAQ section will display the answers to frequently asked end user questions. This page will alos include a short discription of how to successfully interact with the website.

## Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project.

TO DO: Provide a short list of some major assumptions that might significantly affect your design. For example, you can assume that your client will have 1, 2 or at most 50 Automated Banking Machines. Every number has a significant effect on the design of your system. >

Some assumptions that I am making are: each user will enter correct password requirements for whatever website that the password is needed for. The user will only enter nice input IE nothing intended to cause the web page to behave in an inappropriate manner. Lastly, the user will not login from more then one location at a time.

## Safety and Security Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied. Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements.

TODO:

* Provide relevant safety requirements based on your interview with the client or, on your expectation for the product.
* Describe briefly what level of security is expected from this product by your client and provide a bulleted (or numbered) list of the major security requirements.>

Safety requirements are as follows: This product shall not physical harm to the user or reflect the clients organization in an inappropriate way.

The clients that will be using this Web-App will be expecting their usernames and passwords to be kept secure. It is for this reason that we are providing the following security requirements.

* Defend against XSS (considering)
* Protect the web application from remote file inclusion (RFI) and local file (LFI) inclusion attacks (considering)
* Defend the contents of the SQL database by sanitizing user input. (No SQL injection!)
* Protect the client from Cross-Site Request Forgery attacks (CSRF). (considering)
* Command injection (considering).